

IN THE CLAIMS:

The following is a complete listing of claims and replaces all prior versions and listings of claims in the present application:

1. (Original) An image processing apparatus having a plurality of image processing functions, comprising:

IP address generating means, connected to an IPv6 router on a network, for acquiring prefix information from said IPv6 router and generating an IP address unique to each of the plurality of image processing functions on the basis of the acquired prefix information; and

control means for communicating with other appliance on the network by use of the IP address generated for every image processing function and operating each of the plurality of image processing functions in accordance with a result of the communication.

2. (Original) An image processing apparatus according to claim 1, wherein said control means executes the plurality of image processing functions by executing, on a time-division basis using a task switchover, control task programs corresponding respectively to the plurality of image processing functions, and performs the communication using the IP address generated for every image processing function on the basis of the control task program, taking as a unit the control task program corresponding respectively to the plurality of image processing functions.

3. (Original) A control method of an image processing apparatus

having a plurality of image processing functions, comprising:

an IP address generating step of establishing a connection to an IPv6 router on a network, acquiring prefix information from said IPv6 router and generating an IP address unique to each of the plurality of image processing functions on the basis of the acquired prefix information; and

a controlling step of performing a communication with other appliance on the network by use of the IP address generated for every image processing function and operating each of the plurality of image processing functions in accordance with a result of the communication.

4. (Original) A control method of an image processing apparatus according to claim 3, wherein said controlling step involves executing the plurality of image processing functions by executing, on a time-division basis using a task switchover, control task programs corresponding respectively to the plurality of image processing functions, and performing the communication using the IP address generated for every image processing function on the basis of the control task program, taking as a unit the control task program corresponding respectively to the plurality of image processing functions.

5. (Original) A control program of an image processing apparatus having a plurality of image processing functions, comprising:

an IP address generating step of establishing a connection to an IPv6 router on a network, acquiring prefix information from said IPv6 router and generating an

IP address unique to each of the plurality of image processing functions on the basis of the acquired prefix information; and

a controlling step of performing a communication with other appliance on the network by use of the IP address generated for every image processing function and operating each of the plurality of image processing functions in accordance with a result of the communication.

6. (Original) A control program of an image processing apparatus according to claim 5, wherein said controlling step involves executing the plurality of image processing functions by executing, on a time-division basis using a task switchover, control task programs corresponding respectively to the plurality of image processing functions, and performing the communication using the IP address generated for every image processing function on the basis of the control task program, taking as a unit the control task program corresponding respectively to the plurality of image processing functions.

7. (New) An apparatus according to Claim 1, wherein said apparatus is a composite image processing apparatus which includes at least a printer function and a scanner function as said image processing functions.

8. (New) An apparatus according to Claim 1, wherein said IP address generating means sends the generated IP address to the router to check duplication of the IP address, and if the IP address duplicates, said IP address generating means generates an IP

address different from the previously generated IP address on the basis of said prefix.

9. (New) A method according to Claim 3, wherein said apparatus is a composite image processing apparatus which includes at least a printer function and a scanner function as said image processing functions.

10. (New) A method according to Claim 3, wherein said IP address generating step sends the generated IP address to the router to check duplication of the IP address, and if the IP address duplicates, said IP address generating step generates an IP address different from the previously generated IP address on the basis of said prefix.